

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2012/2013

$1^{\rm ST}$ YEAR $2^{\rm ND}$ SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY HEALTH AND DEVELOPMENT

(BUSIA LEARNING CENTRE)

COURSE CODE: HDC 2125

COURSE TITLE: INTRODUCTION TO HUMAN ANATOMY AND

PHYSIOLOGY

DATE: 19/04/2013 TIME: 9.00 AM – 10.30AM

DURATION: 1.5 HOURS

INSTRUCTIONS

- 1. This paper contains TWO sections.
- 2. Answer ALL questions in section A (Compulsory) and ANY other Two questions in section B.
- 3. Write all answers in the booklet provided.

Section A: Answer ALL questions (30 marks)

- 1. Name the three layers of the skin (3 marks)
- 2. List any three chambers of the heart (3 marks)
- 3. Draw and label the human bronchial tree and state one function of the alveoli (3 marks)
- 4. Classify the nervous system and state three of its functions (3 marks)
- 5. Name any three major parts of the brain (3 marks)
- 6. Name the two long bones of the upper limb and the two long bones of the lower limb (3 marks)
- 7. State three functions of the liver (3 marks)
- 8. State the parts of the kidney (gross anatomy) and outline three functions of the kidney (3 marks)
- 9. State three factors that affect the basal metabolic rate (3 marks)
- 10. Name any three blood vessels (3 marks)

Section B: Answer ANY TWO questions (Total 30 marks)

- Draw and label a cross section of the heart and explain how in detail how it functions (15 marks)
- 2. (a) State the function of the human ovary (1 mark)
 - (b) List four hormones secreted by the corpus luteum stating the function of each hormone (4 marks)
 - (c) Using a diagram describe the ovarian and menstrual cycles (10 marks)
- 3. (a) State four functions of the kidney (4 marks)
 - (b) Name the functional unit of the kidney (1 mark)
 - (c) Draw and label this functional unit (4 marks)
 - (d) State the functions of the various parts you have just labeled indicating various hormones which influence the function of the various parts (6 marks)
- 4. Draw gross anatomy of the human digestive system and explain the entire process of digestion from the mouth up to absorption of nutrients and water. (15 marks)